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L1	24	(nested near database)	US-PGPUB	OR ·	ON	2007/05/10 20:57
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L3	22	1 and component	US-PGPUB	OR	ON	2007/05/10 20:58
L4	22	3 and description	US-PGPUB	OR	ON	2007/05/10 20:58
L5	3	4 and packet	US-PGPUB	OR	ON	2007/05/10 20:58
L6	1	5 and (@rlad < "20040122" or @ad < "20020122")	US-PGPUB	OR	ON	2007/05/10 21:01
L7	4606	transfer\$4 near application	US-PGPUB.	OR	ON	2007/05/10 21:01
L8	59	7 and transfer\$4 near database	US-PGPUB	OR	ON	2007/05/10 21:01
L9	22	8 and (application near database)	US-PGPUB	OR	ON	2007/05/10 21:01
L10	0	9 and (add\$3 near component)	US-PGPUB	OR	ON	2007/05/10 21:02
S1	2	"6694325".pn.	US-PGPUB; USPAT; DERWENT; IBM_TDB	OR	ON	2006/10/05 11:39
S2	3	("5485610" "5933831" "6502088").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/05 11:41
S3	3	("5485610" "5933831" "6502088").PN.	US-PGPUB; USPAT; USOCR	OR -	OFF	2006/10/05 11:41



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Systems: University of Manitoba: description of the PIE system used for MUC-6

Dekang Lin November 1993 Proceedings of the 6th conference on Message understanding MUC6

Publisher: Association for Computational Linguistics

Full text available: pdf(757.74 KB) Additional Information: full citation, abstract, references, citings

The PIE (Principar-driven Information Extraction) system takes a different approach to the problem of information extraction from the NUBA system that was used in MUC-5. The NUBA system did not have a parser and relies on an abductive reasoner to construct the semantic relationships between domain specific concepts mentioned in a sentence. The PIE system, on the other hand, relies heavily on a principle-based broad-coverage parser, called PRINCIPAR [2, 6, 8], that we have developed over the past ...

Indexing in an object-oriented DBMS

David Maier, Jacob Stein

September 1986 Proceedings on the 1986 international workshop on Object-oriented database systems OODS '86

Publisher: IEEE Computer Society Press

Full text available: pdf(1.14 MB)

Additional Information: full citation, abstract, references, citings, index

We describe indexing in the GemStone object-oriented database server, which supports a model of objects similar to that of Smalltalk-80. We begin with a brief description of the system's architecture and the role of indexing in GemStone. We then discuss the properties of object-oriented systems, and GemStone in particular, that make indexing considerably different than in a more conventional data model. Various approaches to indexing in an object-oriented model are presented. We describe bo ...

Abstraction in databases

Dennis McLeod, John Miles Smith

June 1980 ACM SIGMOD Record, ACM SIGART Bulletin, ACM SIGPLAN Notices, Proceedings of the 1980 workshop on Data abstraction, databases and conceptual modeling, Volume 11,, 16 Issue 2, 74, 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(515.22 KB)

This paper surveys current research and practice concerning abstraction in database systems. Classical and semantic database models are reviewed and emphasized, as fundamental database abstraction mechanisms.

Collective entity resolution in relational data



Indrajit Bhattacharya, Lise Getoor

March 2007 ACM Transactions on Knowledge Discovery from Data (TKDD), Volume 1

Publisher: ACM Press

Full text available: pdf(511.57 KB) Additional Information: full citation, abstract, references, index terms

Many databases contain uncertain and imprecise references to real-world entities. The absence of identifiers for the underlying entities often results in a database which contains multiple references to the same entity. This can lead not only to data redundancy, but also inaccuracies in query processing and knowledge extraction. These problems can be alleviated through the use of entity resolution. Entity resolution involves discovering the underlying entities and mapping each database ...

Keywords: Entity resolution, data cleaning, graph clustering, record linkage

Portability of syntax and semantics in DATALOG



Carole D. Hafner, Kurt Godden

April 1985 ACM Transactions on Information Systems (TOIS), Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(1.78 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a discussion of the techniques developed and problems encountered during the design, implementation, and experimental use of a portable natural language processor. Datalog (for "database dialogue") is an experimental natural language query system, which was designed to achieve a maximum degree of portability and extendibility. Datalog uses a three-level architecture to provide both portability of syntax to new and extended tasks and portability of semantics to new ...

6 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve



Uncertainty

Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy June 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(3.83 MB)

Additional Information: full citation, references, citings, index terms

7 GALILEO: a strongly-typed, interactive conceptual language



Antonio Albano, Luca Cardelli, Renzo Orsini

June 1985 ACM Transactions on Database Systems (TODS), Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(2.35 MB)

Additional Information: full citation, abstract, references, citings, index

Galileo, a programming language for database applications, is presented. Galileo is a strongly-typed, interactive programming language designed specifically to support semantic data model features (classification, aggregation, and specialization), as well as the abstraction mechanisms of modern programming languages (types, abstract types, and modularization). The main contributions of Galileo are (a) a flexible type system to model database structure and semantic integrity constraints; (b) ...

8 Self-indexing inverted files for fast text retrieval



Alistair Moffat, Justin Zobel

October 1996 ACM Transactions on Information Systems (TOIS), Volume 14 Issue 4

Publisher: ACM Press

Full text available: pdf(484.52 KB)

Additional Information: full citation, abstract, references, citings, index

Query-processing costs on large text databases are dominated by the need to retrieve and scan the inverted list of each query term. Retrieval time for inverted lists can be greatly reduced by the use of compression, but this adds to the CPU time required. Here we show that the CPU component of query response time for conjunctive Boolean queries and for informal ranked queries can be similarly reduced, at little cost in terms of storage, by the inclusion of an internal index in each compress ...

Query optimization in a memory-resident domain relational calculus database system



Kyu-Young Whang, Ravi Krishnamurthy

March 1990 ACM Transactions on Database Systems (TODS), Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(2.46 MB)

Additional Information: full citation, abstract, references, citings, index

We present techniques for optimizing queries in memory-resident database systems. Optimization techniques in memory-resident database systems differ significantly from those in conventional disk-resident database systems. In this paper we address the following aspects of query optimization in such systems and present specific solutions for them: (1) a new approach to developing a CPU-intensive cost model; (2) new optimization strategies for main-memory query processing; (3) new insight into ...

10 Descriptive databases in some design/manufacturing environments

Edward Marlow Hoskins

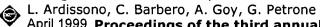
June 1979 Proceedings of the 16th Conference on Design automation DAC '79

Publisher: IEEE Press

Full text available: pdf(611.59 KB) Additional Information: full citation, abstract, citings, index terms

In the development of substantial integrated computer-aided design systems, one of the most crucial features is the creation of purpose-made data structures. These have to be designed with growth and change in mind and in the course of the design process can reach a substantial size. They form the central source and design information about a particular product. They are used to generate drawings, assembly information schedules etc. for production purposes as well as being the data source a ...

An agent architecture for personalized Web stores



April 1999 Proceedings of the third annual conference on Autonomous Agents **AGENTS '99**

Publisher: ACM Press

Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings, index terms

12 The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(28.61 MB)

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

¹³ Algorithms: Predicting resource usage and estimation accuracy in an IP flow measurement collection infrastructure





Nick Duffield, Carsten Lund

October 2003 Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement IMC '03

Publisher: ACM Press

Full text available: pdf(362.83 KB)

Additional Information: full citation, abstract, references, citings, index

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Keywords: bandwidth, estimation, sampling, variance

14 Final report of the ANSI/X3/SPARC DBS-SG relational database task group

July 1982 ACM SIGMOD Record, Volume 12 Issue 4 Publisher: ACM Press

Full text available: pdf(4.69 MB) Additional Information: full citation, citings

15 Draft report on requirements for a common prototyping system

R. P. Gabriel

March 1989 ACM SIGPLAN Notices, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(4.76 MB)

Additional Information: full citation, citings, index terms

16 Types and persistence in database programming languages



Malcolm P. Atkinson, O. Peter Buneman

June 1987 ACM Computing Surveys (CSUR), Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(7.91 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

17 ITICSE 2005 working group reports: Building a sense of history: narratives and



, pathways of women computing educators

Vicki L. Almstrum, Lecia J. Barker, Barbara Boucher Owens, Elizabeth Adams, William Aspray, Nell B. Dale, Wanda Dann, Andrea Lawrence, Leslie Schwartzman December 2005 ACM SIGCSE Bulletin, Volume 37 Issue 4

Publisher: ACM Press

Full text available: pdf(370.48 KB) Additional Information: full citation, abstract, references, index terms

This working group laid the groundwork for the collection and analysis of oral histories of women computing educators. This endeavor will eventually create a body of narratives to serve as role models to attract students, in particular women, to computing; it will also serve to preserve the history of the female pioneers in computing education. Preconference work included administration of a survey to assess topical interest. The working group produced aids for conducting interviews, including ...

Keywords: computing education history, oral history

18 A threaded/flow approach to reconfigurable distributed systems and service

primitives architectures

L. F. Ludwig

August 1987 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology SIGCOMM '87, Volume 17 Issue 5

Publisher: ACM Press

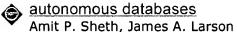
Full text available: pdf(1.19 MB)

Additional Information: full citation, abstract, references, index terms

This paper discusses a methodology for managing the assembly, control, and disassembly of large numbers of independent small-scale configurations within large-scale reconfigurable distributed systems. The approach is targeted at service primitives architectures for enhanced telecommunications networks, but can apply to more general settings such as multi-tasking supercomputers and network operations systems.* Study of the methods presented here was a key motivation in f ...

19 Federated database systems for managing distributed, heterogeneous, and





autonomous databases

September 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(5.02 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

20 Product lines & processes: Five years of product line engineering in a small company





Martin Verlage, Thomas Kiesgen

May 2005 Proceedings of the 27th international conference on Software engineering ICSE '05, Proceedings of the 27th international conference on Software engineering ICSE '05

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(328.48 KB) Publisher Site

Additional Information: full citation, abstract, references, index terms

In 1999, a new team at MARKET MAKER Software AG began to develop a software product line for managing and displaying stock market data and financial market news. The basic idea was to use web technology in all applications for delivering services to customers. It soon turned out that the company had to change both the processes and the organization. This report summarizes the changes made and the lessons learned over the past five years, when the product line idea was introduced into a small com ...

Keywords: SME, experience report, product line engineering, project management

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David Maier, Jacob Stein

September 1986 Proceedings on the 1986 international workshop on Object-oriented database systems OODS '86

Publisher: IEEE Computer Society Press

Full text available: pdf(1.14 MB)

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2 Collective entity resolution in relational data

Indrajit Bhattacharya, Lise Getoor

March 2007 ACM Transactions on Knowledge Discovery from Data (TKDD), Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(511.57 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: Entity resolution, data cleaning, graph clustering, record linkage

Abstraction in databases

Dennis McLeod, John Miles Smith

June 1980 ACM SIGMOD Record, ACM SIGART Bulletin, ACM SIGPLAN Notices, Proceedings of the 1980 workshop on Data abstraction, databases and conceptual modeling, Volume 11,, 16 Issue 2, 74, 1

Publisher: ACM Press

Full text available: pdf(515.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

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The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(28.61 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

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Malcolm P. Atkinson, O. Peter Buneman

June 1987 ACM Computing Surveys (CSUR), Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(7.91 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

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6 EXPRESS: a data EXtraction, Processing, and Restructuring System

N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, V. Y. Lum

June 1977 ACM Transactions on Database Systems (TODS), Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(2.62 MB)

Additional Information: full citation, abstract, references, citings, index terms

EXPRESS is an experimental prototype data translation system which can access a wide variety of data and restructure it for new uses. The system is driven by two very high level nonprocedural languages: DEFINE for data description and CONVERT for data restructuring. Program generation and cooperating process techniques are used to achieve efficient operation. This paper describes the design and implementation of EXPRESS. DEFINE and CONVERT are summarized and the implementation ar ...

Keywords: data conversion, data description languages, data manipulation languages, data restructuring, data translation, file conversion, program generation, very high level languages

Final report of the ANSI/X3/SPARC DBS-SG relational database task group

July 1982 ACM SIGMOD Record, Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(4.69 MB) Additional Information: full citation, citings

Portability of syntax and semantics in DATALOG



Carole D. Hafner, Kurt Godden

April 1985 ACM Transactions on Information Systems (TOIS), Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(1.78 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a discussion of the techniques developed and problems encountered during the design, implementation, and experimental use of a portable natural language processor. Datalog (for "database dialogue") is an experimental natural language query system, which was designed to achieve a maximum degree of portability and extendibility. Datalog uses a three-level architecture to provide both portability of syntax to new and extended tasks and portability of semantics to new ...

9 Polymorphism and type inference in database programming

Peter Buneman, Atsushi Ohori

March 1996 ACM Transactions on Database Systems (TODS), Volume 21 Issue 1

Publisher: ACM Press

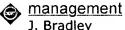
Full text available: pdf(2.96 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

In order to find a static type system that adequately supports database languages, we need to express the most general type of a program that involves database operations. This can be achieved through an extension to the type system of ML that captures the polymorphic nation of field selection, together with a techniques that generalizes relational operators to arbitrary data structures. The combination provides a statically typed language in which generalized relational databases may be cl ...

Keywords: generalized relational algebra, inheritance, object-oriented databases, polymorphism, record calculus, type inference

10 An extended owner-coupled set data model and predicate calculus for database



December 1978 ACM Transactions on Database Systems (TODS), Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(2.34 MB)

Additional Information: full citation, abstract, references, citings, index terms

A data model is presented, based on the extension of the concept of a DBTG ownercoupled set to permit static and dynamic sets and a new kind of set referred to as a virtual set. The notion of connection fields is introduced, and it is shown how connection fields may be used to construct derived information bearing set names, and hence permit the specification of (dynamic) sets which are not predeclared in a schema. Virtual ...

Keywords: Codasyl DBTG, DSL AlPHA, connection field, dynamic set, extended Bachman diagram, extended owner-coupled set data model, extended owner-coupled set predicate calculus, functional dependency, information bearing set name, owner-coupled set, static set, virtual set

11 Artificial intelligence

Elaine Rich January 1983 Book

Publisher: McGraw-Hill, Inc.

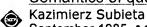
Additional Information: full citation, abstract, references, cited by, review

The goal of this book is to provide programmers and computer scientists with a readable introduction to the problems and techniques of artificial intelligence (A.I.). The book can be used either as a text for a course on A.I. or as a self-study guide for computer professionals who want to learn what A.I. is all about.



The book was designed as the text for a one-semester, introductory graduate course in A.I. In such a course, it should be possible to cover all of the material in the boo ...

12 <u>Semantics of query languages for network databases</u>



September 1985 ACM Transactions on Database Systems (TODS), Volume 10 Issue 3

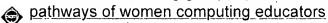
Publisher: ACM Press

Full text available: pdf(3.71 MB)

Additional Information: full citation, abstract, references, index terms

Semantics determines the meaning of language constructs; hence it says much more than syntax does about implementing the language. The main purpose of this paper is a formal presentation of the meaning of basic language constructs employed in many database languages (sublanguages). Therefore, stylized query languages SSL (Sample Selection Language) and J (Joins) are introduced, wherein most of the typical entries present in other query languages are collected. The semantics of SSL and J are ...

13 ITICSE 2005 working group reports: Building a sense of history: narratives and



Vicki L. Almstrum, Lecia J. Barker, Barbara Boucher Owens, Elizabeth Adams, William Aspray, Nell B. Dale, Wanda Dann, Andrea Lawrence, Leslie Schwartzman December 2005 **ACM SIGCSE Bulletin**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: pdf(370.48 KB) Additional Information: full citation, abstract, references, index terms

This working group laid the groundwork for the collection and analysis of oral histories of women computing educators. This endeavor will eventually create a body of narratives to serve as role models to attract students, in particular women, to computing; it will also serve to preserve the history of the female pioneers in computing education. Preconference work included administration of a survey to assess topical interest. The working group produced aids for conducting interviews, including ...

Keywords: computing education history, oral history

14 Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Publisher: ACM Press

Full text available: pdf(613.63 KB)

Additional Information: full citation, references, citings, index terms

15 Algorithms: Predicting resource usage and estimation accuracy in an IP flow

measurement collection infrastructure

Nick Duffield, Carsten Lund

October 2003 Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement IMC '03

Publisher: ACM Press

Full text available: pdf(362.83 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper describes a measurement infrastructure used to collect detailed IP traffic measurements from an IP backbone. Usage, i.e, bytes transmitted, is determined from raw NetFlow records generated by the backbone routers. The amount of raw data is immense. Two types of data sampling in order to manage data volumes: (i) (packet) sampled NetFlow in the routers; (ii) size-dependent sampling of NetFlow records. Furthermore, dropping of NetFlow records in transmission can be regarded as an uncontr ...

Keywords: bandwidth, estimation, sampling, variance

16 Special section: Special issue on Al and Database research

Jonathan J. King

October 1983 ACM SIGART Bulletin, Issue 86

Publisher: ACM Press

Full text available: pdf(3.84 MB) Additional Information: full citation, abstract

This collection of research summaries spans a very wide range of interests under the general heading of AI and Database research. In this introduction, I briefly describe the leading areas of interest that emerge from the reports submitted for this issue.

17 Transformation of data traversals and operations in application programs to account



for semantic changes of databases

Stanley Y. W. Su, Herman Lam, Der Her Lo

June 1981 ACM Transactions on Database Systems (TODS), Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(3.00 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper addresses the problem of application program conversion to account for changes in database semantics that result in changes in the schema and database contents. With the observation that the existing data models can be viewed as alternative ways of modeling the same database semantics, a methodology of application program analysis and conversion based on an existing-DBMS-model-and schema-independent representation of both the database and programs is presented. In this methodolog ...

Keywords: access pattern, application program conversion, database changes, semantic data model, transformation rules

18 A data model and data structures for moving objects databases



Luca Forlizzi, Ralf Hartmut Güting, Enrico Nardelli, Markus Schneider

May 2000 ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(1.30 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, index <u>terms</u>

We consider spatio-temporal databases supporting spatial objects with continuously changing position and extent, termed *moving objects databases*. We formally define a data model for such databases that includes complex evolving spatial structures such as line networks or multi-component regions with holes. The data model is given as a collection of data types and operations which can be plugged as attribute types into any DBMS data model (e.g. relational, or object-oriented) to obtain ...

19 Data conversion and restructuring: An Access Path Specification Language for



restructuring network databases

Donald Swartwout

August 1977 Proceedings of the 1977 ACM SIGMOD international conference on Management of data SIGMOD '77

Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings

The Access Path Specification Language (APSL) is a high-level essentially nonprocedural language for specifying restructuring transformations of network databases. It does so in terms of application-oriented concepts such as access strategies and selection criteria. APSL's approach to restructuring emphasizes description of the source *structures* from which target data is to be retrieved, rather than the *operations* needed to convert source constructs to target constructs. The latter ...

Keywords: data translation, data translation language, data translation software, database restructuring, network databases, network restructuring, restructuring languages, restructuring software, translation specification languages

20 Systems: University of Manitoba: description of the PIE system used for MUC-6 Dekang Lin



November 1993 Proceedings of the 6th conference on Message understanding MUC6 '95

Publisher: Association for Computational Linguistics

Full text available: 📆 pdf(757.74 KB) Additional Information: full citation, abstract, references, citings

The PIE (Principar-driven Information Extraction) system takes a different approach to the problem of information extraction from the NUBA system that was used in MUC-5. The NUBA system did not have a parser and relies on an abductive reasoner to construct the semantic relationships between domain specific concepts mentioned in a sentence. The PIE system, on the other hand, relies heavily on a principle-based broad-coverage parser, called PRINCIPAR [2, 6, 8], that we have developed over the past ...

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